

Patent Abstracts of Japan

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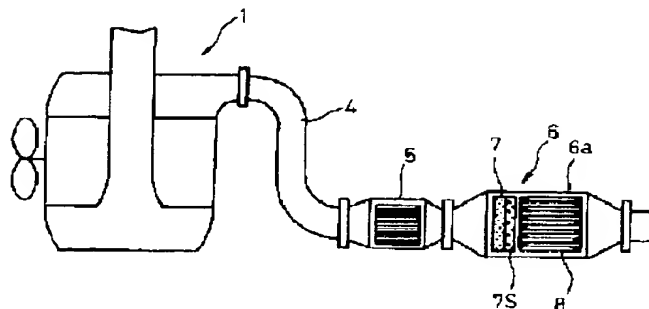
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APPLICANT : TOYOTA MOTOR CORP;

INVENTOR : TAKEUCHI MASAHIKO;

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TITLE : EXHAUST EMISSION CONTROL  
DEVICE FOR DIESEL ENGINE



ABSTRACT : PROBLEM TO BE SOLVED: To efficiently eliminate particulates in the exhaust gas of a diesel engine.

SOLUTION: A diesel engine exhaust system is provided with an oxidation catalyst 5, and a particulate filter 6 disposed downstream of the catalyst 5 so as to collect particulates (soot) in exhaust gas. The particulate filter 6 is divided into a prefilter 7 and a main filter 8, and an oxidation catalyst is disposed (7S) between the filters 7, 8. NO<sub>2</sub> generated by oxidizing NO in the exhaust by the catalyst 5 flows into the prefilter 7 and burns the collected soot so as to be reduced to NO. The oxidation catalyst at a part 7S converts this NO again into NO<sub>2</sub> and supplies it to the main filter 8. Since NO after burning soot is converted into NO<sub>2</sub> and reused to burn soot collected by the filter on the lower reaches, the quantity of NO<sub>2</sub> contributing to the burning of soot is increased while maintaining the total quantity of NO<sub>x</sub> in the exhaust gas to the same quantity.

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